

**BEST AVAILABLE COPY**

# **EXHIBIT A**

## transponder

Explore the TechTarget Network at [SearchTechTarget.com](http://SearchTechTarget.com).



HOME NEWS TOPICS ASK THE EXPERTS TIPS DISCUSSIONS WEBCASTS WHITE PAPERS PRODUCTS & VENDORS CAREERS SITE MAP

Activate your FREE membership today! Log In  
Search this site and the Web



Powered by Google

## Microsoft Exchange is a Hot Topic

[SearchExchange.com](http://SearchExchange.com) is the top online resource and community for news and tips on Microsoft Exchange and Outlook administration

[whatis.com](http://whatis.com) [SearchMobileComputing.com](http://SearchMobileComputing.com) Definitions - transponder

**searchMobileComputing.com Definitions** - powered by [whatis.com](http://whatis.com)

BROWSE WHAT'S.COM DEFINITIONS: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z # BROWSE ALL CATEGORIES

Search [whatis.com](http://whatis.com) for:   - OR - Search this site:

☐ EMAIL THIS PAGE TO A FRIEND

## transponder

powered by [whatis.com](http://whatis.com)

The term you selected is being presented by [searchMobileComputing.com](http://searchMobileComputing.com), a TechTarget site for Mobile Computing professionals.

A transponder is a wireless communications, monitoring, or control device that picks up and automatically responds to an incoming signal. The term is a contraction of the words transmitter and responder. Transponders can be either passive or active.

EXPLORE THIS AREA: RICH-MEDIA ADVERTISEMENT

A passive transponder allows a computer or robot to identify an object. Magnetic labels, such as those on credit cards and store items, are common examples. A passive transponder must be used with an active sensor that decodes and transcribes the data the transponder contains. The transponder unit can be physically tiny, and its information can be sensed up to several feet away.

Simple active transponders are employed in location, identification, and navigation systems for commercial and private aircraft. An example is an RF-ID (radio-frequency identification) device that transmits a coded signal when it receives a request from a monitoring

[http://searchmobilecomputing.techtarget.com/sDefinition/0,sid40\\_gel213219,00.html](http://searchmobilecomputing.techtarget.com/sDefinition/0,sid40_gel213219,00.html)

6/8/2004

Appl. No. 09/630,595  
Appeal Brief dated June 17, 2004  
Appendix B

## transponder

or control point. The transponder output signal is tracked, so the position of the transponder can be constantly monitored. The input (receiver) and output (transmitter) frequencies are preassigned. Transponders of this type can operate over distances of thousands of miles.

Sophisticated active transponders are used in communications satellites and on board space vehicles. They receive incoming signals over a range, or band, of frequencies, and retransmit the signals on a different band at the same time. The device is similar to a repeater of the sort used in land-based cellular telephone networks. The incoming signal, usually originating from a point on the earth's surface, is called the uplink. The outgoing signal, usually sent to a point or region on the surface, is the downlink. These transponders sometimes operate on an interplanetary scale.

### >> Find products and vendors related to transponder.

#### Read more about it:

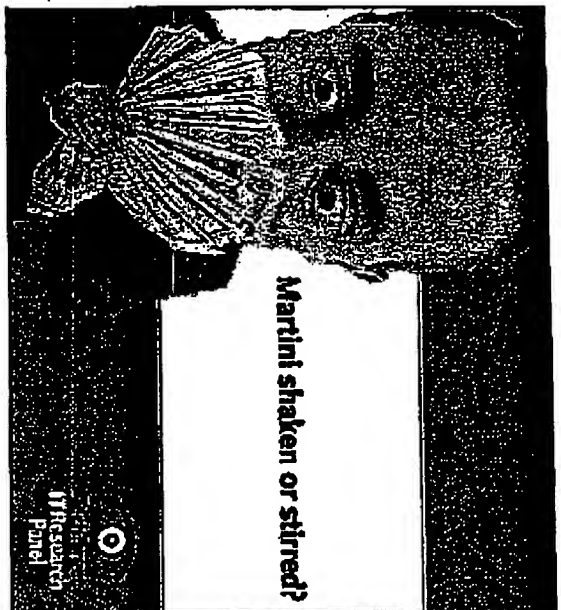
- >> "How Stuff Works" explains how the transponder signal provides the controller with your aircraft's flight number, altitude, airspeed and destination.
- >> "How Satellite Technology Works" describes the role of transponders in satellite broadcasts.
- >> Tom Rogers provides a short paper on "Transponder Basics" for aircraft.

### RELEVANT SPONSORED LINKS

**RFID for Wal-Mart and DOD**  
Major Retail and Government mandate compliant RFID applications.  
rfid.primetrix.com

**Omnion Auto ID Systems**  
Advanced RFID and Auto ID Systems for all industrial applications.  
oesiweb.omnion.com

**Need RFID Answers?**  
Download Zebra's New RFID Readiness Guide Now and Be Prepared  
www.rfid.zebra.com



#### WHAT'S NEW

on searchMobileComputing

1. Cisco Resource Center
2. Wireless LAN Security
3. Wireless Security Learning Guide
4. Introducing SearchSmallBizIT.com

Free Chapter Download **BD2.11 Security Risks**

Appln. No. 09/630,595  
Appeal Brief dated June 17, 200  
Appendix B

[http://searchmobilecomputing.techtarget.com/sDefinition/0,sid40\\_gc1213219,00.html](http://searchmobilecomputing.techtarget.com/sDefinition/0,sid40_gc1213219,00.html)

6/8/2004

transponder

**Maxell RFID Chip**  
Micro-Sized Chip with Antenna  
- View Specs & Email for More Info  
[www.maxell.com/rfid](http://www.maxell.com/rfid)

**Acacia rfid Middleware**  
Integrate rfid to your ERP System  
New Acacia/Chainlink White Paper  
[www.acsisinc.com](http://www.acsisinc.com)

Last updated on: Apr 11, 2003

[« Back to previous page](#)   [Go to whalla.com home page »](#)

3058102460

T-621   P.021/031   F-805

From:Hunton and Williams

14:22

11-12-04

**HOME**   **NEWS**   **TOPICS**   **ASK THE EXPERTS**   **TIPS**   **DISCUSSIONS**   **WEBCASTS**   **WHITE PAPERS**   **PRODUCTS & VENDORS**   **CAREERS**   **SITE MAP**

[About Us](#) | [Contact Us](#) | [For Advertisers](#) | [For Business Partners](#) | [Reprints](#)

[SearchMobileComputing.com](#) is part of the TechTarget network of industry-specific IT Web sites:

**APPLICATIONS**  
[SearchCRM.com](#)  
[SearchSAP.com](#)

**DEVELOPMENT**  
[SearchVB.com](#)

**ENTERPRISE IT MANAGEMENT**  
[SearchCIO.com](#)  
[SearchSmallBizIT.com](#)

[TechTarget Enterprise IT Conferences](#) | [TechTarget Corporate Web Site](#) | [Media Kit](#)

Explore [SearchTechTarget.com](#), the guide to the TechTarget network of industry-specific IT Web sites.  
All Rights Reserved, Copyright 2003 - 2004, TechTarget

[Read our Privacy Statement](#)

[http://searchmobilecomputing.techtarget.com/Definition/0,,sid40\\_gci213219,00.html](http://searchmobilecomputing.techtarget.com/Definition/0,,sid40_gci213219,00.html)

SEARCH



Appln. No. 09/630,595  
Appeal Brief dated June 17, 2004  
Appendix B

6/8/2004

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☒ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**